**Flow Chart of BFollinger Bands**

**A**

**STOP**

Plot the stock price, Upper Band, and Lower Band on a chart.

Identify buy signals and plot them on the chart as green triangles.

Identify sell signals and plot them on the chart as red triangles.

Display the chart

Download stock data using yf.download

SELL

TRUE

Price > Upper Band

FALSE

BUY

TRUE

Price < Lower Band

For each data point: - Check if the price is below the Lower Band - If true, assign a value of 1 to the Signal variable (buy signal) - Check if the price is above the Upper Band - If true, assign a value of -1 to the Signal variable (sell signal) - Calculate the Position as the difference between consecutive signals - Check if the Position changes from -1 to 0 - If true, reset the Position to 0

Calculate Bollinger Bands (MA, STD, Upper Band, Lower Band)

Import required packages